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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/789,799	02/27/2004	Frank Kuo	VISH-4123.DIV	9449
7590 03/10/2006		EXAMINER		
WAGNER, MURABITO & HAO LLP			ORTIZ, ANGELA Y	
Third Floor Two North Market Street			ART UNIT	PAPER NUMBER
San Jose, CA 95113			1732	
			DATE MAILED: 03/10/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/789,799	KUO, FRANK	
Office Action Summary	Examiner	Art Unit	
	Angela Ortiz	1732	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be to do will apply and will expire SIX (6) MONTHS from tute, cause the application to become ABANDON	DN. timely filed m the mailing date of this communication. IED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on <u>27</u>	February 2004.		
	nis action is non-final.		
3) Since this application is in condition for allow	vance except for formal matters, pr	rosecution as to the merits is	
closed in accordance with the practice under	r Ex parte Quayle, 1935 C.D. 11, 4	153 O.G. 213.	
Disposition of Claims			
4) ☐ Claim(s) 25-27 is/are pending in the applicate 4a) Of the above claim(s) is/are withdrest 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 25-27 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.		
Application Papers			
9) ☐ The specification is objected to by the Examin 10) ☑ The drawing(s) filed on 27 February 2004 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the I	are: a) \square accepted or b) \square objectone drawing(s) be held in abeyance. Seection is required if the drawing(s) is of	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a list	ents have been received. ents have been received in Applicationity documents have been received in PCT Rule 17.2(a)).	tion No ved in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summar Paper No(s)/Mail D	Date	
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/06 Paper No(s)/Mail Date <u>2/27/04</u>. 	6) Other:	Patent Application (PTO-152)	ļ

U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05) Application/Control Number: 10/789,799

Art Unit: 1732

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 25-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saeki et al., USP 4,900,501 in view of Kobayakawa, USP 6,913,950.

The cited primary reference substantially teaches the basic claimed method of encapsulating an electronic device comprising the steps of electrically and mechanically attaching a plurality of semiconductors to a leadframe, and placing the device within a molding cavity of a molding apparatus. The apparatus comprises a transfer mold having a plurality of cavities fed by runners formed through consecutive cavities. The apparatus allows flow of resin from the first cavity, to the second cavity, to the next consecutive cavities until all are filled with resin molding material. Note that consideration of the reference is not limited to 3 cavities; see col. 3, line 65 to col. 4, line 8. Also see col. 3, lines 10-60; col. 2, lines 55-68.

The cited primary reference does not teach a leadless semiconductor package as claimed.

The added secondary reference teaches as conventional the feature of encapsulating leadless semiconductor packages, including providing a plurality of die

pads 40 on a mother substrate to which a plurality of devices are attached. See claims 1-7; col. 1, lines 1-12.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to include a leadless semiconductor device as shown in the added reference, when performing the process set forth in the primary reference, for forming encapsulated leadless devices, as such are common in the industry and are an equivalent alternative to the devices shown in the primary reference.

With respect to claims 26-27, note that while the primary reference shows three cavities, consideration is not limited to three, but can include more than three, and as many as desired – see col. 3, line 65 to col. 4, line 8.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. USP's 4983110; 5218759; 5635115; 5932254; 6173490; 6338813; 64652776893903; JP 04345073 A.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angela Ortiz whose telephone number is 571-272-1206. The examiner can normally be reached on Monday-Thursday 9:00-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Colaianni can be reached on 571-272-1196. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Angela Ortiz
Primary Examiner
Art Unit 1732